

SECTION B: Contextual questions

QUESTION 2.1:

Refer to the article below and answer the questions that follow:

TEAM FINDS ORIGINS OF DRUG-RESISTANT TB

KZN scientist, Dr Alex Pym, was the lead author of a study that has traced the roots of XDR TB in the province.

The origin of extensively drug-resistant tuberculosis (XDR TB) in KwaZulu-Natal has been traced to the 1950s – a revelation which could help to circumvent the evolution of the bacteria.

Dr Pym said the findings provided “real hope” for treating XDR TB, which is resistant to most drugs, making it virtually untreatable and, for the majority of sufferers, fatal. “This year the National TB Control Programme was able to get access to the first new TB drug developed in 40 years – bedaquiline – and there are others in the pipeline. But unless we use these new drugs carefully, the XDR TB bacteria will continue its relentless evolution and the new drugs will become useless,” Pym said.

Researchers used a method which worked out the entire genetic code of individual strains of bacteria – called whole genome sequencing. This, with dating analysis, was used to trace the origin of XDR TB. “We found that the mutations in the TB bacteria that cause drug resistance emerged in the 1950s, soon after the first antibiotics (isoniazid) to treat the disease became available. Since then, every time a new drug has been introduced, the TB bacteria has successfully developed resistance to it. By the 1980s, the microbe had evolved to multi drug-resistant status (MDR) and by the mid-1990s it had mutated to XDR,” Pym said.

Most hospitals and clinics in South Africa currently only test for resistance to the drug Rifampicin. “If we want to turn off the tap to generating new drug resistant strains of TB, we have to screen for isoniazid resistance as well,” Pym said.



Adapted from Daily News, 02 October 2015

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| 2.1.1. Which kind of microorganism causes TB? | (1) |
| 2.1.2. Give two symptoms of this disease. | (2) |
| 2.1.3. What does XDR TB stand for? | (1) |
| 2.1.4. What significant finding by Dr. Pym and his team may help to prevent further resistance developing in XDR TB and how did they accomplish this? | (5) |

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Yijin Wang



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